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MORGAN & FINNEGAN 345 PARK AVENUE NEW YORK, NY 10154			EXAMINER	
			ONUAKU, CHRISTOPHER O	
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			2615	<i>,</i> ,<
			DATE MAILED: 07/29/2003	47

Please find below and/or attached an Office communication concerning this application or proceeding.

4





Office Action Summary

Application No. **08/614,196**

Applicant(s)

Tamura et al

Fyaminer

Christopher O. Onuaku

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	The MAILING DATE of this communication appears	on the cover sh	eet with	the correspondence address		
	for Reply					
THE N Extens	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the					
- If the p - If NO p - Failure - Any re	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the platent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) the application to becor	MONTHS from ABANDO	om the mailing date of this communication. DNED (35 U.S.C. § 133).		
Status						
1) 💢	Responsive to communication(s) filed on 3/26/03 a	and 5/13/03				
2a) 🗌	This action is FINAL . 2b) X This act	tion is non-final	•			
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposit	tion of Claims					
4) 💢	Claim(s) <u>1-16</u>			is/are pending in the application.		
4	a) Of the above, claim(s)			is/are withdrawn from consideration.		
	Claim(s)					
	Claim(s) <u>1-16</u>					
	Claim(s)					
	Claims					
	ition Papers		-			
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	; a) 🗆 accepte	d or b)	\Box objected to by the Examiner.		
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120					
13)💢	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) 💢	a) ☑ All b) ☐ Some* c) ☐ None of:					
	1. 💢 Certified copies of the priority documents have been received.					
:	2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
	ee the attached detailed Office action for a list of the					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) The translation of the foreign language provisional application has been received.						
15)∐ ••••••••	Acknowledgement is made of a claim for domestic	priority under 3	35 U.S.C	C. §§ 120 and/or 121.		
Attachme	ent(s) tice of References Cited (PTO-892)	4) 🗆 ((570			
	tice of Draftsperson's Patent Drawing Review (PTO-948)	_		413) Paper No(s)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). — — — 6) Other:						
		o, Line.				

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DETAILED ACTION

Continued Examination Under 37 CAR 1.114

1. A request for continued examination under 37 CAR 1.114, including the fee set forth in 37 CAR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CAR 1.114, and the fee set forth in 37 CAR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CAR 1.114. Applicant's submission filed on 5/13/03 has been entered.

Response to Arguments

2. Applicant's arguments filed 3/26/03 have been fully considered but they are not persuasive.

Applicant argues that in an arrangement under the teachings of Mimura, if the masked blocks (masked area) are changed, an exposure control state is changed. Applicant then concludes that Mimura does not disclose, teach or suggest storing control parameters and keeping the exposure control state by using the stored control parameters even if the masked area is changed in accordance with, for example, changing of a position and shape of light-sensing area.

In response, examiner fails to see this applicant's deduction from the teachings of Mimura. Clearly Mimura discloses that once the photometric area is specified, the optimum

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amount of light is determined, and based on the determined optimum amount of light, the object located on the selected photometric area is photographed. Mimura further discloses that by optionally setting photographic areas excluding excessively luminal areas, the subject can be seen with an optimized amount of light under any condition where the television camera is located (see col.1, lines 60-66).

It is pertinent to point out the functions of the microcomputer 11, wherein the microcomputer 11 excludes the masked blocks and controls the lens 2 on the basis of the signal for the remaining blocks to obtain optimum amount of light on the remaining photometric areas; col.2, line 55 to col.3, line 28), the microcomputer 11 uses the "stored" optimum exposure parameters (inherently stored by the microcomputer 11) to adjust for an optimum amount of light of the remaining photometric area, some of which may be backlighted.

As shown in the discussions below, Iwasaki, Shimuzu and Faltermeier were cited for teaching other aspects of the claimed invention which Mimura fails to disclose.

Claim Rejections - 35 U.S.C. § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 1,3,6&9 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claims 1, 3, & 6, lines 18-19 and claim 9, lines 11-12, the added limitation "... even if the selected zone is changed by said zone selecting means." contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim Rejections - 35 U.S.C. § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Mimura et al (US 5,280,359).

As shown above, claim 1 has a 112 First problem, and is being rejected by the bset possible interpretation.

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Regarding claim 1, Mimura et al disclose an image pickup device for use in a television camera including a diaphragm control optimizing the light amount for a subject, comprising:

- a) zone selecting means for selecting any zone on the image sensing plane in a state that said the image sensing means is sensing the subject image (see photographic area selecting switch 10; col.2, line 35 to col.3, line 28);
- b) exposure detecting means for detecting an exposure condition on the basis of the image signal in a selected zone, and exposure control means for controlling an exposure based upon the detected exposure condition (see the microcomputer 11; col.2, line 55 to col.3, line 20);
- c) memory means for storing control parameters outputted by the exposure control means, the memory means configured to store control parameters when an exposure control processing by the exposure control means is completed and an optimum exposure control state is obtained (again see microcomputer 11, and signal processing section 5 wherein the microcomputer excludes the masked blocks and controls the lens 2 on the basis of the signal for the remaining blocks to obtain optimum amount of light on the remaining photometric areas; col.2, line 55 to col.3, line 28), here the microcomputer 11 uses the "stored" optimum exposure parameters (inherently stored by the microcomputer 11) to adjust for an optimum amount of light of the remaining photometric area, some of which may be backlighted;
- d) control means for controlling the exposure control means to keep an exposure control state (i.e., optimum exposure state) corresponding to the control parameters stored in the memory means in the state that the control parameters corresponding to the optimum exposure control

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state is stored in the memory means, even if the selected zone is changed by the zone selecting means (see microcomputer 11, and the discussions above; especially, col.1, lines 60-66 and col.3, lines 12-28). Here once the photometric area is selected, the optimum amount of light for the selected area is determined and inherently maintained during photographing period, even if the selected photographing area is changed, perhaps, by accident.

Claim Rejections - 35 U.S.C. § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura et al in view of Munson (US 5,648,814).

Regarding claim 2, Mimura fails to explicitly disclose wherein if the value relating to exposure is outside a prescribes range of values stored in advance, the exposure maintaining means selects an upper-limit value or a lower-limit value of the prescribed range of values as a value relating to exposure. Munson teaches in Fig.1-4 method and apparatus of a camera function of a video conferencing system enhanced such that it will operate in an automatic adjustment mode for brightness and color for only a predetermined period of time comprising microcontroller 32 which operates camera 16 in its initial period in the automatic adjustment

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mode. During this period, as part of the normal operation, microcontroller 32 continuously checks and determines if the image quality is "the same" as the "ideal image". If the image quality is "the same" as the "ideal image", microcontroller 32 continues operation without making any adjustments. Otherwise, microcontroller 32 adjusts brightness and color balance as appropriate. Being able to adjust the exposure value of an object to fall within a predetermined optimum range of values, for example, ideal values, helps to simply the exposure control function in a camera. It would have been obvious to one of ordinary skill in the art to modify Mimura, as taught by Munson, to include a means to facilitate adjusting the exposure value of an object to fall within a predetermined optimum range of values, for example, ideal values, which helps to simply the exposure control function in a camera.

9. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura et al in view of Iwasaki (US 5,461,452).

As shown above, claim 3 has a 112 First problem, and is being rejected in the best possible interpretation.

Regarding claim 3, the claimed limitations of claim 3 are accommodated in the discussion of claim 1, except the claimed select-ed-zone detection means for determining whether the image signal captured by the image sensing means contains the zone upon elapse of a prescribed period of time, and outputting a signal for resetting control parameters in the memory means if the captured image signal is not contained in the zone.

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Iwasaki in Fig.28&30 shows a visual axis detecting device 110 (col.18, lines 55-67) which detects the visual axis of the photographer, and a tracking device 155 (col.18, lines 64-67, and col.19, line 1 to col.21, line 6), and has approximate spectral characteristics. By adding the selected-zone detecting means feature to a camera, the photographer is better able to produce a better quality picture because of improved exposure. It would have been obvious to one of ordinary skill in the art to modify the camera of Mimura, as taught by Iwasaki, to include a selected-zone detecting feature of Iwasaki to improve the exposure control capability of the camera, thereby creating a better quality camera.

Regarding claim 4, the claimed limitations of claim 4 are accommodated in the discussion of claim 2 above.

Regarding claim 5, neither Mimura nor Iwasaki explicitly discloses the claimed selecting means for allowing a photographer to select whether maintenance of exposure is to be nullified. However, as disclosed by Iwasaki and discussed in claim 3 above, the detecting processing portion 115 detects the position of visual axis of the photographer. That is, the detecting processing portion is detecting what the photographer is seeing. It is then obvious that if the photographer considers the image he is seeing to be of poor quality, he can conveniently shift his line of sight to the spot where he can see an image which he considers to be of better quality.

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This way he has the ability to nullify or not the position of the image that the detecting processing portion 115 detects.

10. Claims 6,7&8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura in view of Iwasaki and further in view of Shimuzu (US 5,400,074).

As shown above, claim 6 has a 112 First problem, and is being rejected in the best possible interpretation.

Regarding claim 6, Mimura discloses in Fig. 1, an exposing apparatus and method for performing optimum exposure control in correspondence to a luminance level of an object comprising:

- a) the claimed zone selecting means which is discussed in claim 1;
- b) the claimed exposure detecting means which is also discussed in claim 1;
- c) the claimed exposure control means which is discussed in claim 1;
- d) the "first" claimed memory means, which again is also. discussed in claim 1;
- e) the claimed control means which is discussed in claim 1 above;
- f) the claimed "second" memory means for storing a video signal of the zone is disclosed by Iwasaki in Fig.45 and column 30, lines 57-67 and column 31, lines 1-6. Here Iwasaki shows that the reading circuit 192 reads the outputs from the element indicated by the coordinates (Xa,Ya) from the CCD 107 according to the decision result indicating that the object is changed. The transferring circuit 193 transfers the above-named coordinates (Xa,Ya), and the outputs from

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the element obtained by the reading circuit 192 as coordinates (Xb,Yb) indicating the position of new object, and these data are stored in the coordinates holding portion 156. Thereafter, the tracking device 155 executes tracking processing of the position of the object on the basis of the above-mentioned position of the new object.

Neither Mimura nor Iwasaki shows the claimed detection means for determining whether a zoomed image signal captured by the image sensing means contains the video signal of the zone stored in the "second" memory means, and outputting a signal for resetting the control parameters in the "first" memory means if the captured image signal is not contained in the zone.

However, Shimuzu teaches in Fig.5,6&7, col.4, line 62 to col.5, line 32, a video camera device comprising a zoom lens position detecting circuit 15. This zoom lens position detecting circuit detects the amount of movement of the zoom lens in the inner focus lens assembly 1, and the detected amount is supplied to the ROM 16. The ROM 16 stores amounts of F-drop corresponding to various positions of the zoom lens, as shown in Fig.6. An amount of F-drop corresponding to the position of the zoom lens is supplied from ROM 16 to the control amount computing circuit 12 which calculates the open amount for the iris 2, and a gain for the AGC amplifier 4, on the basis of outputs from the loop filter I I and the ROM 16. Thereafter, the output from the control amount computing circuit 12 is sent to the iris driving circuit 13 and the D/A converter 14. The output from the iris driving circuit 13 is then sent to the iris 2 to control the open amount thereof. Fig.7 shows a graph where the gain B of the AGC amplifier 4 is corrected to the gain curve B' by adding a gain amount 'W' corresponding to the amount of F-

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drop. This gain correction process shows that the zoomed video signal captured by the image sensor is reset and then corrected if the zoomed video signal is not contained.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the camera of Mimura, to include a zoomed video signal detecting means, as taught by Shimuzu, as an added feature to increase the versatility of the camera.

Regarding claim 7, the claimed limitations of claim 7 are accommodated in the discussions of claim 4 above.

Regarding claim 8, the claimed limitations of claim 8 are accommodated in the discussions of claim 5 above.

11. Claims 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura in view of Iwasaki and further in view of Faltermeier (US 5,579,156).

As shown above, claim 9 has a 112 First problem, and is being rejected in the bset possible interpretation.

Regarding claim 9, the claimed limitations of claim 9 are accommodated in the discussions of claim 3 above, except adjusting means for applying a prescribed adjustment to the image signal of a zone (see col.3, lines 12-28).

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Mimura discloses display means (see display circuit 6; and col.2, line 29 to col.4, line 4). Mimura and Iwasaki fail to disclose a pointing device for selecting any zone in a screen displayed by the display means. Faltermeier et al disclose in Fig.1 a photomicroscope with a video camera and an exposure time control for a still camera comprising the claimed display means(see monitor 25) for displaying the image area recorded with the camera, and the claimed pointing device(see the track ball 27c; col.4, lines 43-57) which is used to select the object areas of particular interest, for exposure metering which ensures that these object areas are suitably exposed.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify Mimura by realizing Mimura with a pointing device, as taught by Faltermeier, for selecting object area of particular interest.

Regarding claim 10, Faltermeier further teaches wherein the pointing device is a line-of-sight detecting device for detecting position of a photographer's line of sight directed to a screen (see computer mouse; col.7, lines 12-16). It is well known that the movement of the operator's line of sight corresponds to the movement of the mouse. It would have been obvious to add a mouse to the system of Mimura as a line-of-sight detecting device for detecting, for example, the position of a photographer's line of sight directed to screen, since it is well known that the movement of the operator's line of sight corresponds to the movement of the mouse.

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Regarding claim 11&12, Faltermeier teaches a track ball and computer mouse as a pointing devices (see Fig.1, col.4 lines 43-57 and col.6, line 66 to col.7, line 18.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the camera of Mimura realizing the apparatus of Mimura with a mouse/track ball as a pointing device in order to increase the versatility of Mimura, thereby making the apparatus more commercially appealing.

Regarding claim 13, Mimura fails to explicitly disclose wherein the adjusting means adjusts exposure of the image sensing device by adjusting f-stop(focusing), a shutter(exposure), and gain. Iwasaki further teaches wherein the adjusting means adjusts exposure of the image sensing device by adjusting f-stop(focusing), shutter(exposure), and gain (see Fig.28; col.21). It would have been obvious to add an exposure adjusting means to Mimura in order, for example, to adjust the exposure of the image sensing device by adjusting f-stop(focusing), shutter(exposure), and gain, as taught by Iwasaki.

Regarding claim 14, the claimed limitation wherein when adjustment by the adjusting means has attained a prescribed state, the control means maintains the state of adjustment prevailing at this time is accommodated in the discussions of claim I above.

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Regarding claim 15, in Fig. 1, and column 4, lines 50-53, Faltermeier teaches the claimed selecting means for allowing the photographer to select whether storage of the adjusting data by the control means is performed or not is met by the disclosure that via switching knobs 27b (adjusting means, see claim 1), the user, which is the photographer, can choose whether the entire video image shall be used for exposure control or only an image area of alternatively 1%,3% or 10% of the entire image surface. Since the photographer chooses which image portion he wants to video, the control means stores only that image chosen by the photographer through the switching knobs 27b.

12. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura in view of Iwasaki and Faltermeier et al and further in view of Arai et al (US 5,570,156).

Regarding claim 16, Mimura, Iwasaki and Faltermeier fail to disclose the claimed limitation wherein the screen is a monitor screen of an electronic viewfinder.

However, Arai. et al disclose in Fig.3a camera utilizing detection of visual line comprising the claimed electronic viewfinder with a monitor screen which is met by the electronic viewfinder

101(col.4, lines 58-59) which inherently has a monitor screen for viewing video images of objects.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the camera of Mimura, as taught by Arai. et al, to include

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an electronic viewfinder, as an added feature, in order to monitor video images of objects, and thereby increase the exposure control range of the video camera of Mimura.

Conclusion

13. Any inquiry concerning this communication or earlier communications from this examiner should be directed to Christopher Onuaku whose telephone number is (703) 308-7555. The examiner can normally be reached on Tuesday to Thursday from 7:30 am to 5:00 pm. The examiner can also be reached on alternate Monday.

If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Andrew Christensen, can be reached on (703) 308-9644.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry) and (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service whose telephone number is (703) 306-0377.

COO

7/23/03

THAT FRAN THAN THAN EXAMINER